

INTEGRATED MICROMACHINED FILTER SYSTEMS AND METHODS

Abstract of the Disclosure

A micromachined filter system comprises a micromachined filter integrated in a micro-device. In various embodiments, the micromachined filter system is fabricated along with the micro-device using the same or similar techniques. The micromachined filter may comprise a polysilicon filter. According to the micromachined filter system, the micromachined filter may be formed in one or more polysilicon layers of the micro-device. The micromachined filter may also comprise a polyimide filter. In various embodiments, the micromachined filter may be situated downstream of a fluid inlet of the micro-device. In various embodiments, a non-integrated, external pre-filter may be used in conjunction with an integrated micromachined filter.

Figures

Figure 1: A line graph showing the relationship between the number of people in a group and the time taken to complete a task. The x-axis represents the number of people (1 to 10), and the y-axis represents the time taken in minutes (0 to 100). The data points are as follows:

Number of People	Time Taken (minutes)
1	10
2	20
3	30
4	40
5	50
6	60
7	70
8	80
9	90
10	100

The graph shows a linear relationship where the time taken increases by 10 minutes for each additional person in the group.